APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Automatic Control of the Gas Flow in the Blast Furnace, by N. N. Chernov & P. G. Baranovskii. RUSSIAN, per. Izvest. Vuz- Chern. Met, No 7, 1958, pp 79-89.

HB 5099

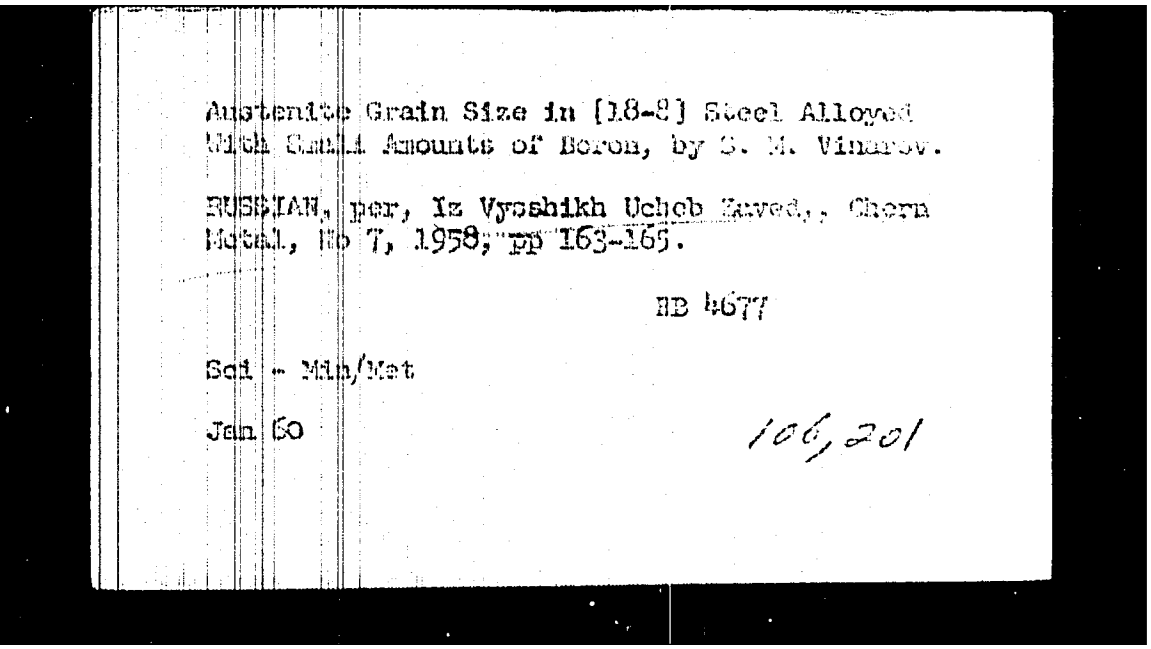
CRLJT. 3933x

Sci/Mat
Feb 68

349,466

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Austenite Grain Size in [18-8] Steel Alloyed With Small Amounts of Boron, by S. M. Vinarov.

RUSSIAN, per, Iz Vyoshikh Uchob Zaved., Chern Metal., No 7, 1958; pp 163-165.

BB 4677

Sci - Min/Met

Jan 60

106,201

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Use of Molybdenum Sulfide as Lubricant for Cold Rolling of Tubes, by I. M. Pavlov, et al.

[illegible], per, Iz Vysshikh Uchebnykh Zavedeniy, Chern Metal., No 7, 1958, pp 193-193.

HB 4678

Sci - Min/Met

Dec 59

104357

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Dimensions of the High-Voltage Zones in the Blast-Furnace Stock Column, by V. K. Gruzinov.

RUSSIAN, per, Iz Vysshikh Uchebn Zaved, Chern Metal, No 8, 1958, pp 3-6.

HB 5025

Sci

Aug 61

163,186

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Redistribution of Moisture During the Sintering of Iron Ores, by A. A. Sigov.

RUSSIAN, per, Iz Vysshikh Uchebnykh Zavedeniy, Chern Met, No 8, 1958, pp 7-12.

HB 4640

Sol - Min/Met

Nov 59

100,854

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Direct Iron Production From Ore Without Blast Furnace, by N. N. Dobrokhtov, K. E. Makhorin. UNCL.

RUSSIAN, per, Iz Vysshikh Uchebnykh Zavedeniy, Chern Met, No 10, 1958, pp 3-13.

Henry Brutcher
4614

USSR
Econ
Sep 59

96,501

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

How to Offset the Effect of Nitrogen on Steel Quality, by Yu. F. Gurevich. UNCL

RUSSIAN, per, Iz Vysshikh Uchebnykh Zavedeniy, Chern Met, No 10, 1958, pp 31-35.

Henry Brutcher 4619

Sci - Min/Met
Sep 59

96,503

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Some Problems of Consumable-Electrode Vacuum Arc Melting, by D. A. Shabanov. UNCL

RUSSIAN, per, Iz Vysshikh Uchebnykh Zavedeniy, Chern Met, No 10, 1958, pp 37-42.

Henry Brutcher 4616

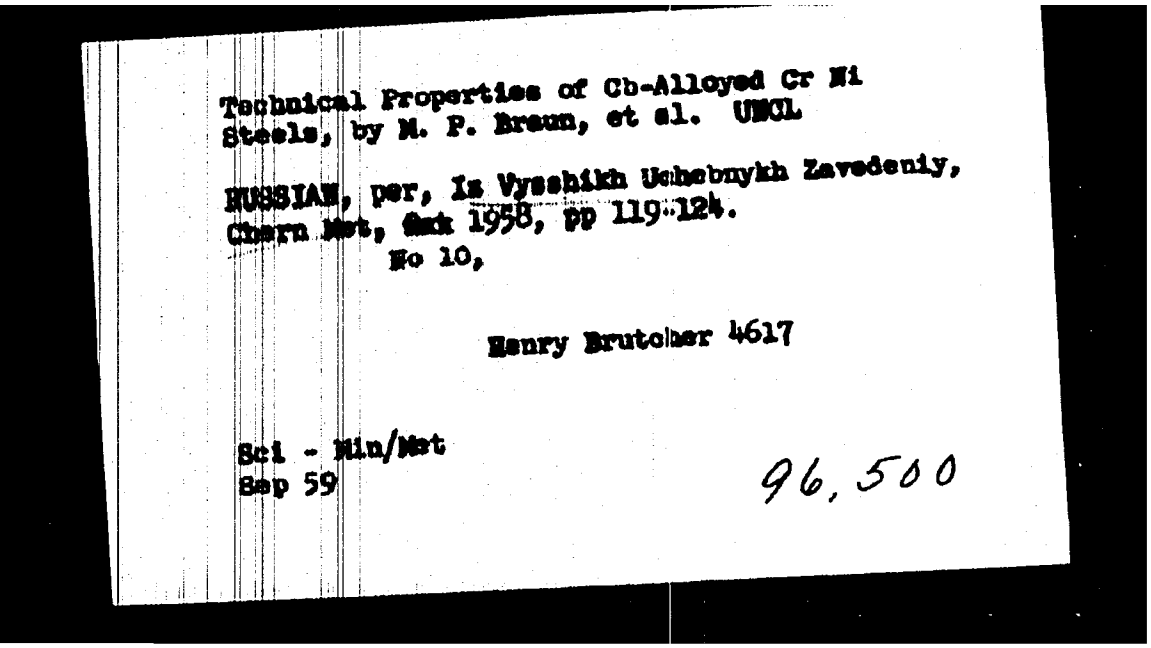
Sci - Min/Met [redacted] ATIC MCL-165/I

Sep 59

96,497

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Technical Properties of Cb-Alloyed Cr Ni Steels, by M. P. Braun, et al. UNCL

RUSSIAN, per, Iz Vysshikh Uchebnykh Zavedeniy, Chern Met, Eng 1958, pp 119-124. No 10,

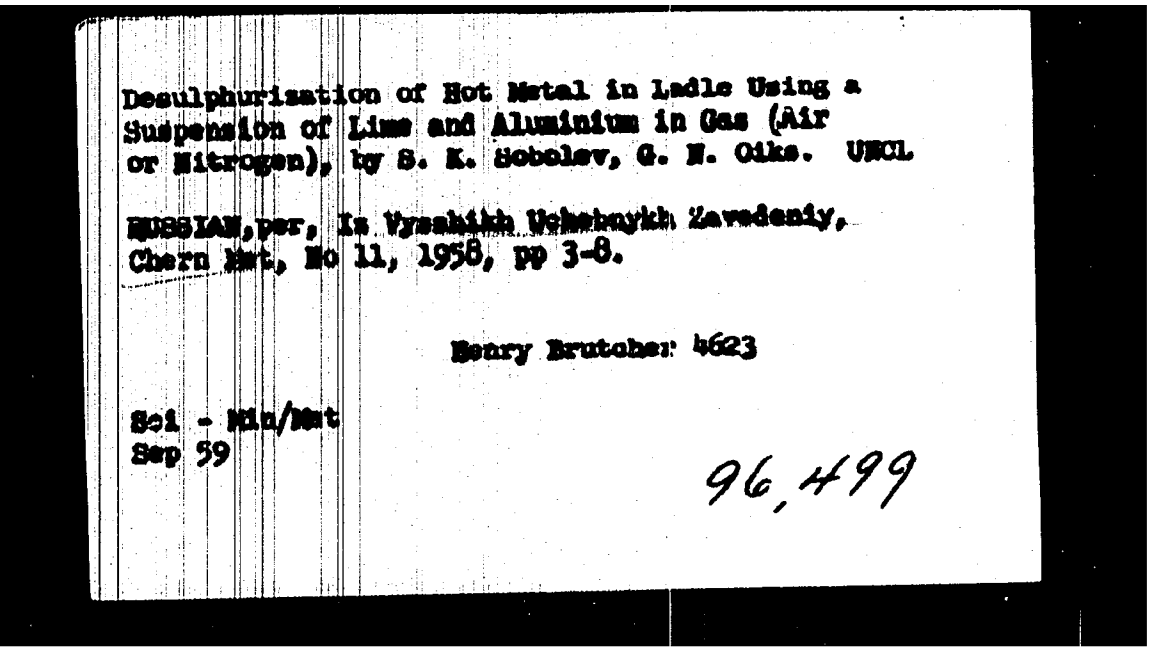
Henry Brutcher 4617

Sci - Min/Met
Sep 59

96,500

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Desulphurisation of Hot Metal in Ladle Using a Suspension of Lime and Aluminium in Gas (Air or Nitrogen), by S. K. Sobolev, G. N. Oiks. UNCL

RUSSIAN, per, Iz Vysshikh Uchebnykh Zavedeniy, Chern Met, No 11, 1958, pp 3-8.

Henry Brutcher: 4623

Sci - Min/Met
Sep 59

96,499

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Behaviour of Nitrogen in the Melting of Iron Alloys in a Vacuum Arc Furnace, by D. A. Shabanov. UNCL

RUSSIAN, per, Iz Vyashikh Uchebnykh Zavedeniy, Chern Met, No 11, 1958, pp 37-40.

Henry Brutcher 4521

96,498

Sci - Min/Met; Chem
Sep 59

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Effect of Gases on the Hardness of Rimmed and Killed Low-Carbon (0.08%C) Steel, by B. C. Katapov, E. S. Pal'kevich. UNCL

RUSSIAN, per, Iz Vysshikh Uchebnykh Zavedeniy, Chern Met, No 11, 1958, pp 95-98.

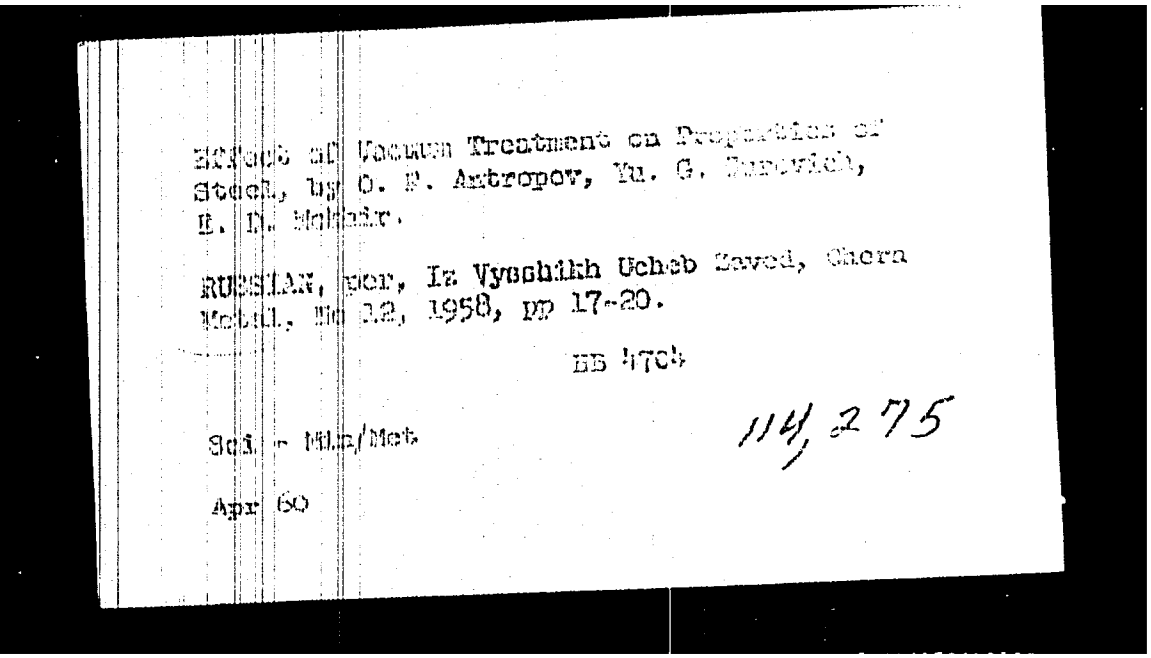
Henry Brutcher 4622

Sci - Phys, Min/Met
Sep 59

96,496

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Effect of Vacuum Treatment on Properties of Steel, by O. F. Antropov, Yu. G. Zarovich, E. D. Mohair.

RUSSIAN, per, Iz Vysshikh Uchab Zaved, Chern Metall., No 12, 1958, pp 17-20.

BB 4704

Sci - Mtls/Met

Apr 60

114,275

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Formation of Surface Layers of Steel While Filling Open-Ended Moulds by Bottom Pouring, by Yu. N. Yakovlev.
RUSSIAN, per. Izv. VUZ Chern. Met., No 3, 1958, pp. 34-41.
*HB 6967

Sci - Mechanical
Aug 67

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Study of Heat Transfer in Moulds of Continous-Casting Machines for Steel, by A. D. Akimenko, A. A. Skvortsov. USCL

RUSSIAN, per, Iz Vyashikh Uchab Zaved, Chern Met, Dec 1958, pp 45-50.

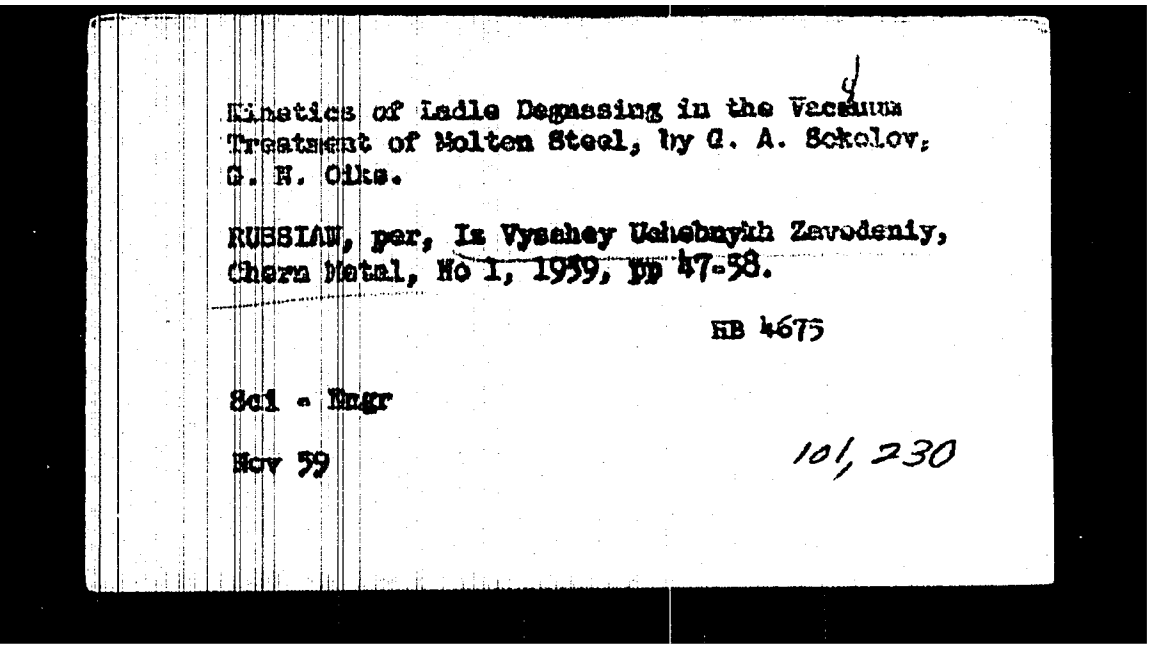
HB 4735

109,493

Sci - Phys; Min/Met
Mar 60

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Kinetics of Ladle Degassing in the Vacuum Treatment of Molten Steel, by G. A. Skolov, G. N. Oiks.

RUSSIAN, per, Iz Vysshey Uchebnykh Zavedeniy, Chern Metal, No 1, 1959, pp 47-58.

HB 4675

Sci - Engr

Nov 59

101, 230

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Effect of Treatment of 1 Percent C, 1.5 Percent Cr Bearing Steel With Boron Upon Some Properties in As-Cast State, by A. I. Fal'kov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 1, 1959, pp 113-120.

HB 4627

Sci - Min/Met

May 60

116,529

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Study of Automatic Control Systems for Steelmaking Arc Furnaces, by A. I. Sapko.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 1, 1959, pp 145-153.

HB 4630

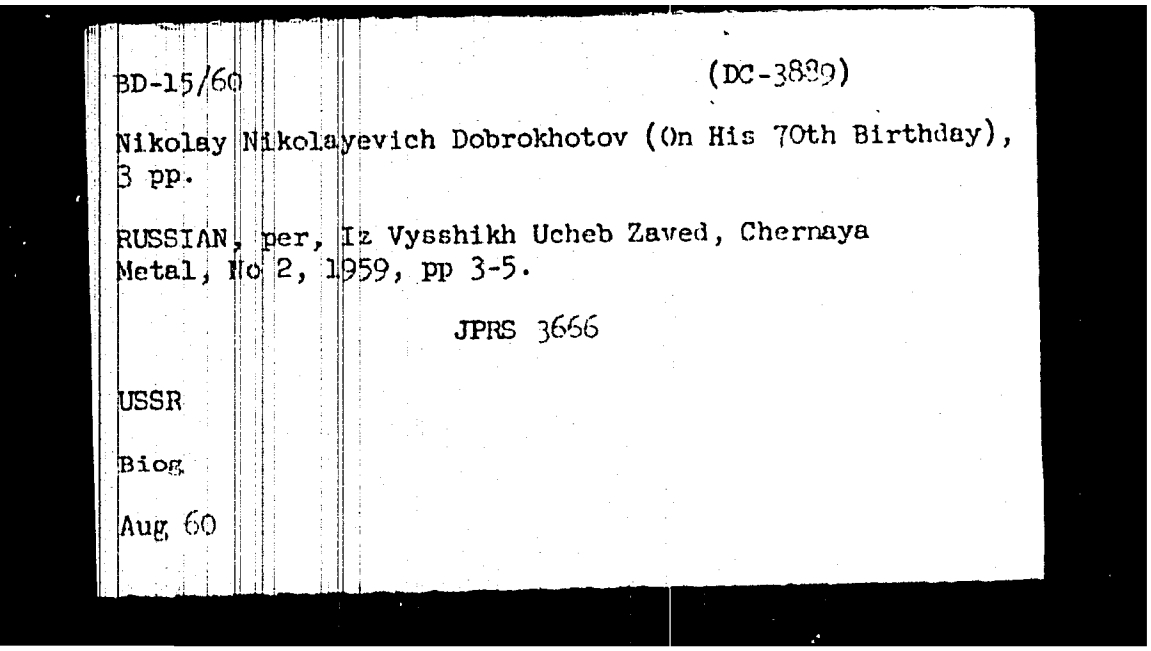
Sci - Engr

Jun 60

118,423

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



BD-15/60 (DC-3889)

Nikolay Nikolayevich Dobrokhotov (On His 70th Birthday), 3 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chernaya Metal, No 2, 1959, pp 3-5.

JPRS 3666

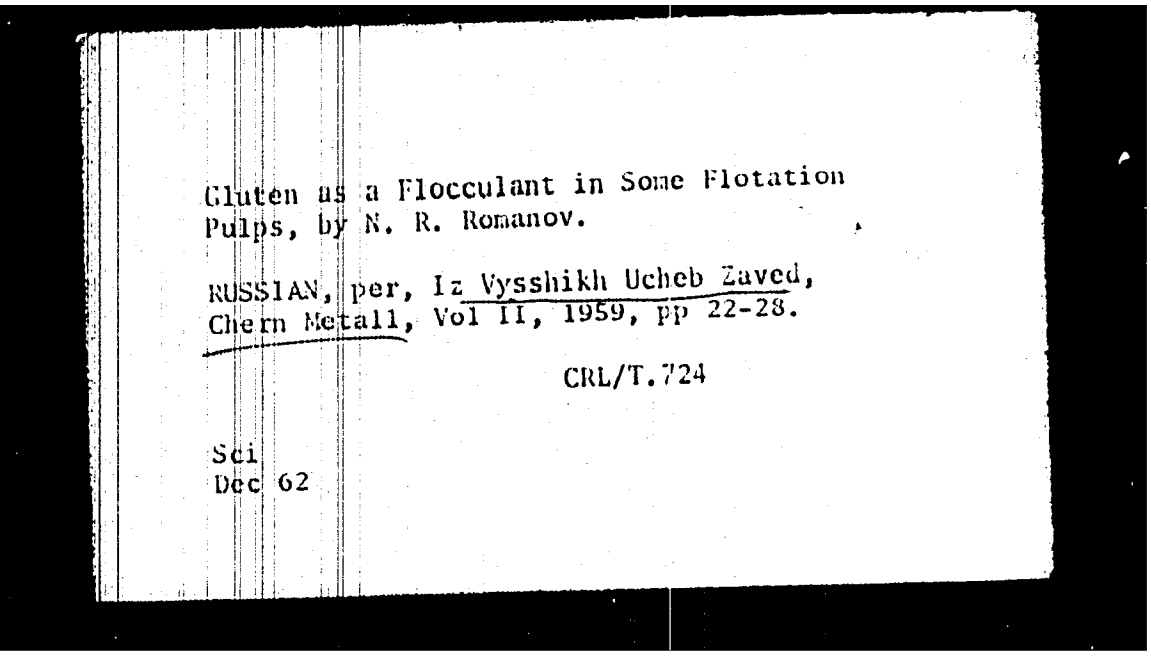
USSR

Biog

Aug 60

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Gluten as a Flocculant in Some Flotation Pulps, by N. R. Romanov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metall, Vol II, 1959, pp 22-28.

CRL/T.724

Sci
Dec 62

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Influence of Alloy Elements on Hydrogen Permeability of Steels and Binary Alloys on an Iron Base, by R. A. Ryabov, P. V. Gel'd.

RUSSIAN, per, Iz Vysshikh Uchab Zaved, Chern Metal, No 2, 1959, pp 83-92.

BISI 2698

Sci - m/m

Jan 63

list 162

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

On Laws Governing the Process of Coagulation of Carbide Particles in Steel Above Point A_1, by V. I. Pearev.

RUSSIAN, per, Iz Vys Uch Zav Chern Metall, No 2, 1959, pp 93-99. CIA 9660812

ATIC MCL 456

Sci - Min/Met

May 61

152, 584

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

BD-15/60 (DC-3889)

Boris Pavlovich Sergiyevskiy, 2 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chernaya Metal, No 3, 1959, pp 3, 4.

JPRS 3666

USSR

Biog

Aug 60

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Effect of Composition of Alloy Steels Upon the Formation of Flakes, by L. B. Krepysheva,

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 3, 1959, pp 93-100.

HB 5255

Sci - Min/Met

Jan 62

178, 320

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Operation and Modernization of Pilger Mill Feeders, by S. N. Kozhevnikov, et al.

RUSSIAN, per, Iz Vyashikh Ucheb Zaved, Chern Metal, No 3, 1959, pp 143-155.

BISI 2019

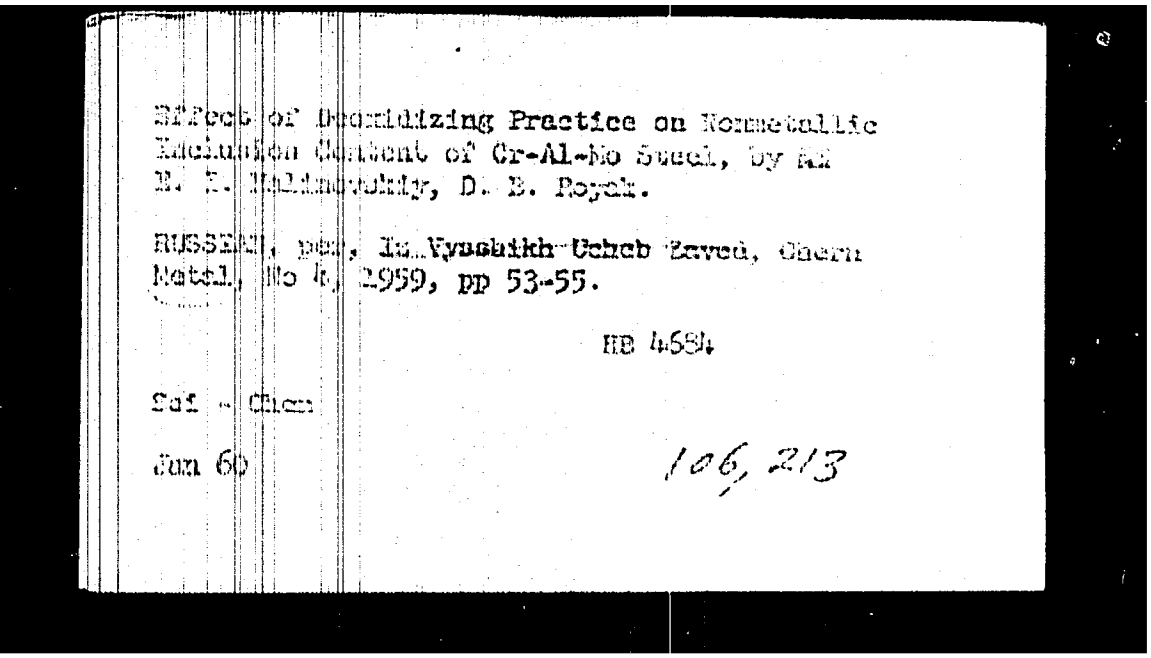
Sci - Engr

May 61

148,129

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Effect of Deoxidizing Practice on Nonmetallic Inclusion Content of Cr-Al-Mo Steel, by Ali B. I. Odintsovskiy, D. B. Royek.

RUSSIAN, pub, Izv. Vysshikh Uchab Zaved, Chern Metal, No 4, 1959, pp 53-55.

HB 4684

Sal - Chem

Jan 60

106, 213

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

S-159/60 (NY-3715).

Concerning the Kinetics in the Formation of Centers of Crystallization, by Yu. V. Grdina, L. A. Bondar', 9 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 4, 1959, pp 73-78.

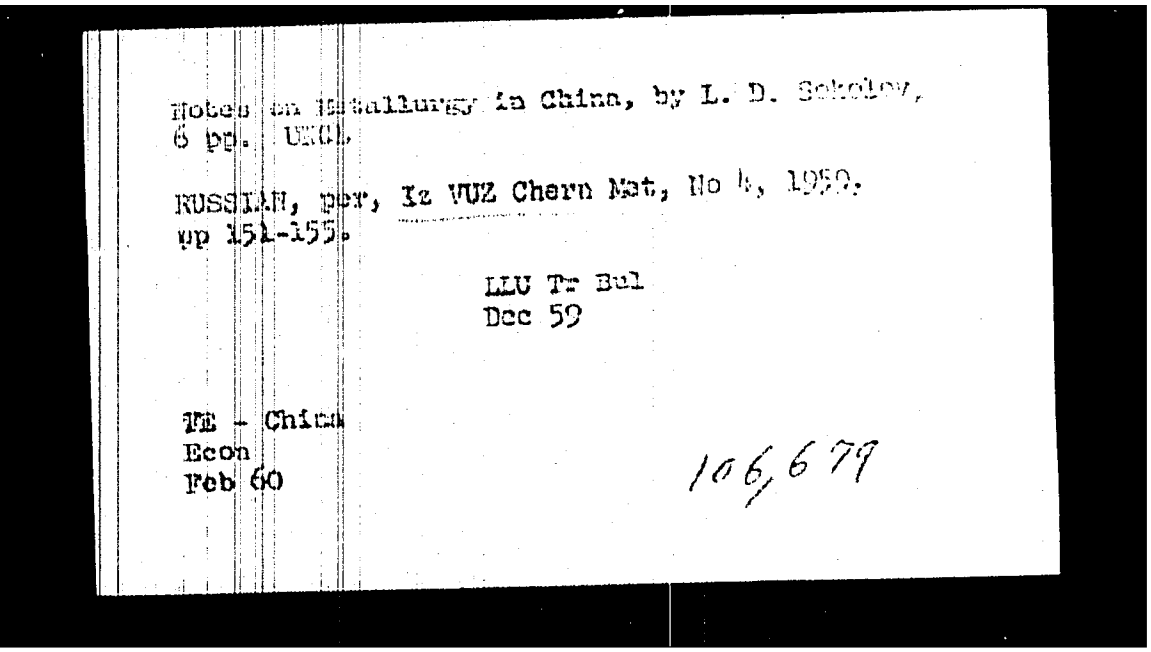
JPRS 2488

113,848

Sci - Phys
Apr 60

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Roben on Metallurgy in China, by L. D. Sokolov,
6 pp. UNCL.

RUSSIAN, per, Iz VUZ Chern Met, No 4, 1959,
pp 151-155.

LLU Tr Bul
Dec 59

FE - China
Econ
Feb 60

106,679

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Relationship Between Blast Temperature and Temperature Distribution Over the Height of the Blast Furnace, by I. F. Koval'.

RUSSIAN, In Vyashikh Uchsb Zaved., Chern Metal, No 5, 1959, pp 19-27.

HB 4696

Sci - Engr

Apr 60

114,265

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Electrical Resistance of Chromite-Coal Mixtures During Coking, by A. T. Khvichiya.

RUSSIAN, per. Iz Vysshikh Ucheb Zaved, Chern Metal., No 5, 1959, pp 41-44.

HB 4689

Sci - Fuels

Apr 60

114,263

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

New High-Speed Steel, 3 pp.

RUSSIAN, per, Iz Vysshikh Uchebnykh Zavedeniy,
Chern Metal, No 5, 1959, pp 83-89.

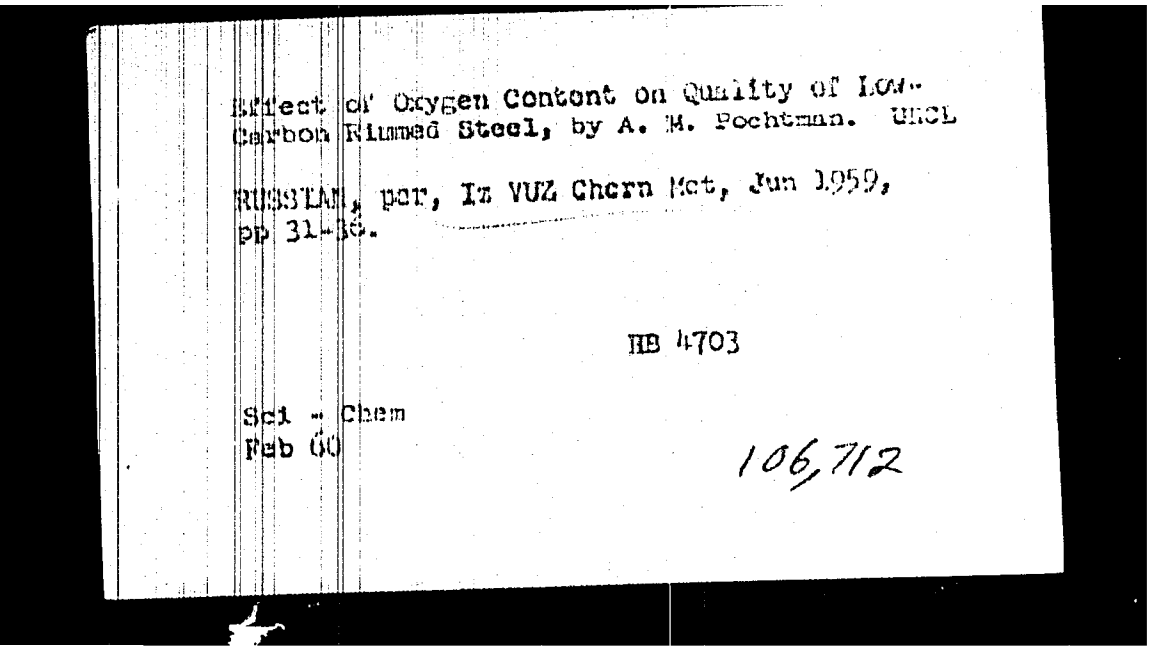
AID/SIR-3146

Sci - Min/Mets
Jan 60

105,377

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Effect of Oxygen Content on Quality of Low-Carbon Rimmed Steel, by A. M. Pochtman. UNCL

RUSSIAN, per, Iz VUZ Chern Met, Jun 1959, pp 31-36.

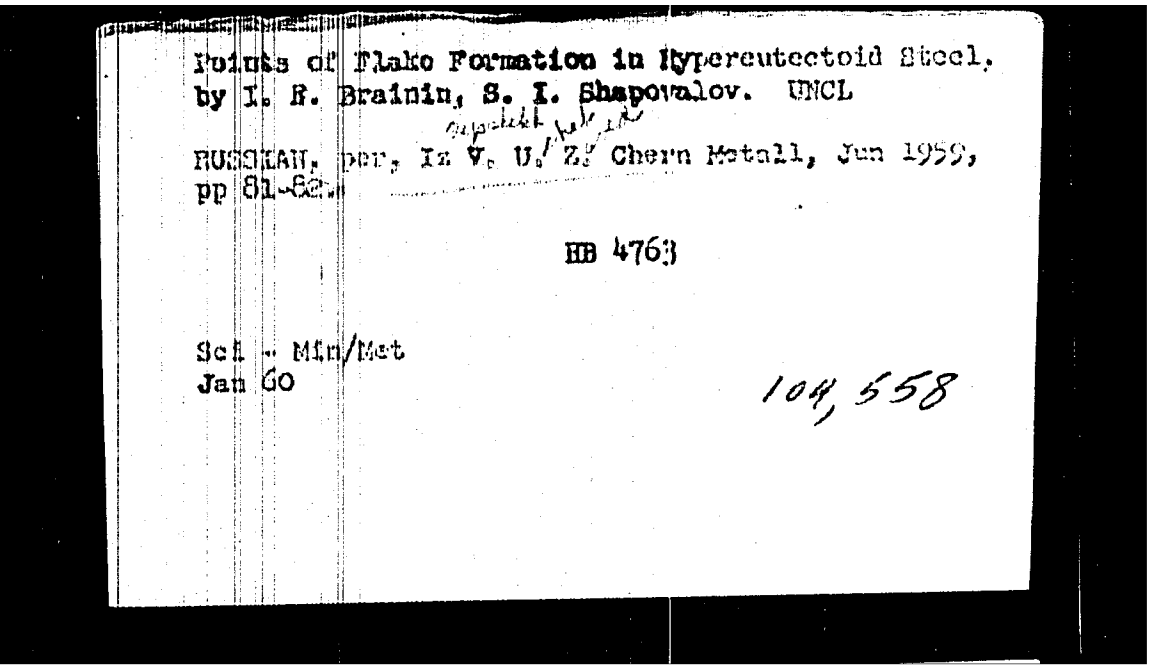
HB 4703

Sci - Chem
Feb 60

106,712

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Points of Flake Formation in Hypereutectoid Steel,
by I. F. Brainin, S. I. Shapovalov. UNCL

RUSSIAN, per, Iz V. U. Z. Chern Metall, Jun 1959,
pp 81-82.

HB 4763

Sci - Min/Met
Jan 60

104,558

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

An Economic Evaluation of the Use of Iron Ore Pellets, by I. S. Kagan, et al.

RUSSIAN, per, Iz Vyushikh Uchab Zavad, Chern Metal, Jun 1959, pp 145-154.

HB 4935

USSR
Econ
Jan 61

136,601

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Use of Ore-Limestone Briquetts in Oxygen Side-Blown Converter for Refining High- Phosphorus Iron, by V. G. Fedorovich, S. F. Karp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Met, No 7, 1959, pp 35-39.

BH 4767

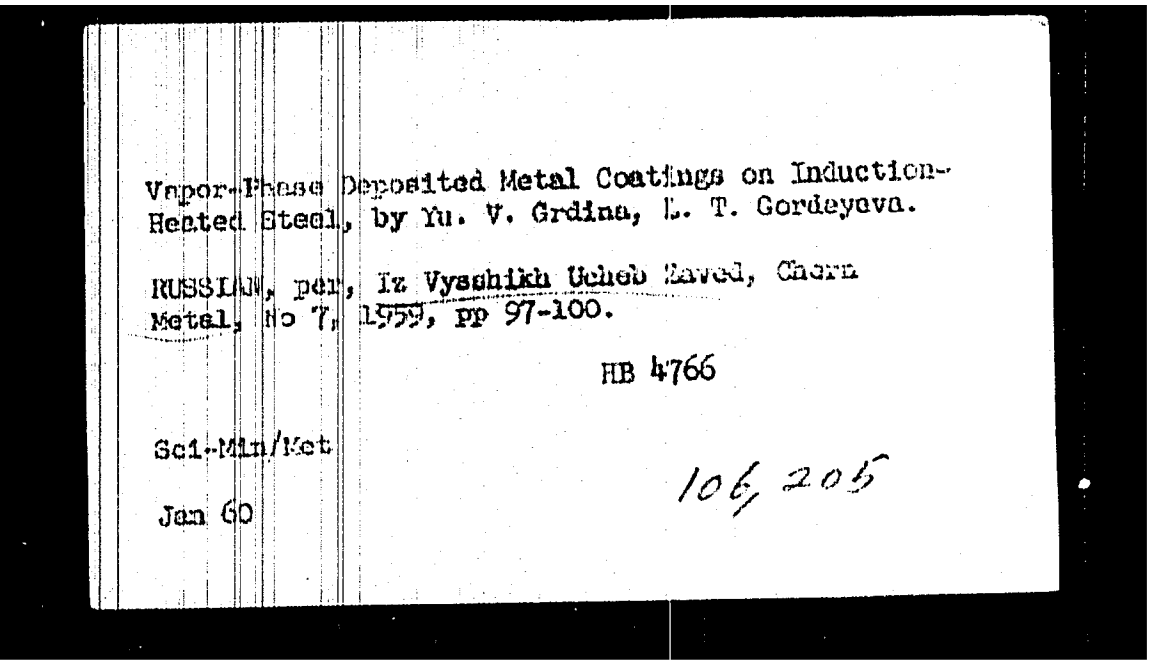
Sci - Engr

Oct 60

129,109

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Vapor-Phase Deposited Metal Coatings on Induction-Heated Steel, by Yu. V. Grdina, L. T. Gordeyeva.

RUSSIAN, per, Iz Vysshikh Uchebn Zaved, Chern Metal, No 7, 1959, pp 97-100.

HB 4766

Sci-Min/Met

Jan 60

106 205

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Effect of Hydrogen Upon the Mechanical Properties of Carbon Cast Steel, by Yu. A. Nekhendzi, V. P. Kalenov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 7, 1959, pp 101-103.

HB 4765

Sci - Chem

Jan 60

106/212

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

R-2617 (DC-3244).

Siberia - The Most Important Link in the Third Metallurgical Base of the USSR, by V. E. Popov, 8 pp.

RUSSIAN, per, Iz Vysshikh Uchebnykh Zavedeniy, Chernaya Metallurgiya, No 7, 1959, pp 139-146.

JPRS-L-1985-D

USSR
Econ - Technological - Ferrous Metallurgy
Jan 60

105 748

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Activite des constituants de laitiers du systeme chaux-alumine-silica, by I. T. Bryvalin, C. A. Esin.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, Vol II, No 6, 1959, pp 9-16.

CDS I.T.3470

Sci

Nov 61

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Achievements of Blast Furnace Technology in China, by Shu-liang Ting.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal., No 8, 1959, pp 17-19.

HB 5119

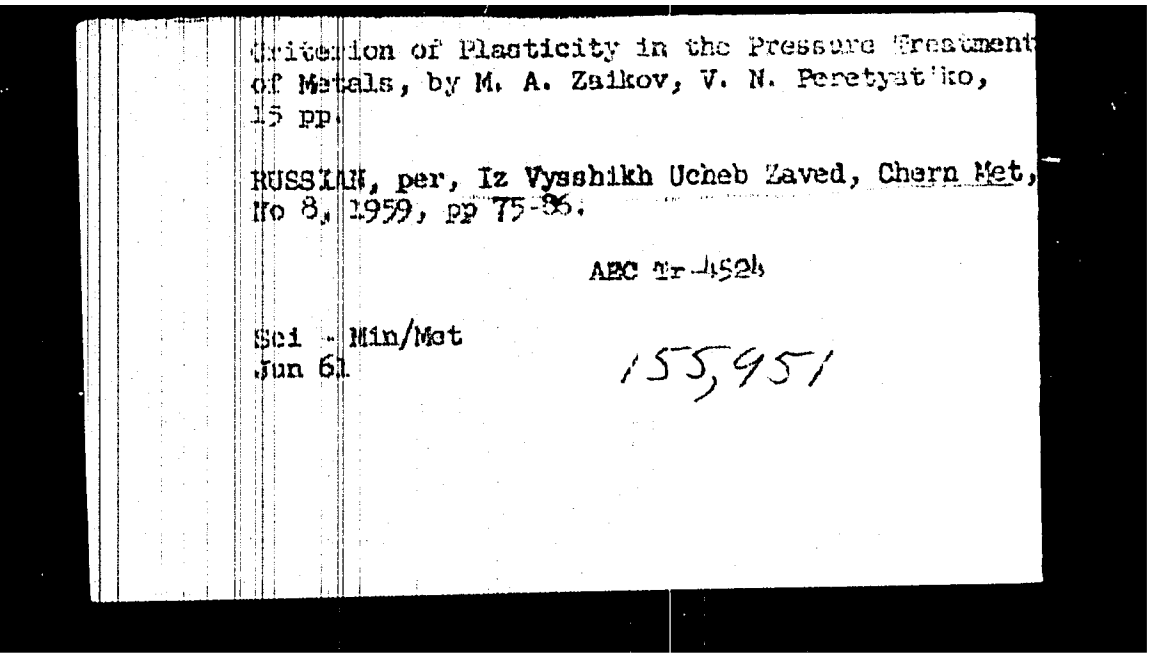
Sci - Engr

Jul 61

162,748

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Criterion of Plasticity in the Pressure Treatment of Metals, by M. A. Zaikov, V. N. Peretyat'ko, 15 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Met, No 8, 1959, pp 75-86.

AEC tr-4524

Sci - Min/Met
Jun 61

155,951

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Use of Top-Gas Composition for Analysis and Control of the Thermal Condition of Blast Furnaces, by A. N. Pokhvisnev, N. K. Zhiklin.

SUBJECT, per, Iz Vyshikh Ucheb Zaved, Chern Metal, Sep 1959, pp 29-45.

MB 4871

Sci - Engr

Jan 61

136, 585

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Scale Resistance of Alloys in the Ternary System Ni-Al-Cr, by A. S. Tumarev, et al. //-RP
RUSSIAN, PER, Izv. Vyssh. Ucheb. Zaved., Chern. Met. No 9, 1959, pp 125-131.
NASA TT F 13,221

sci/mat
jan 71

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Bending and the Rigidity of Valve Components Covers Freely or Flexibly Suspended, Suitable for Blast Furnace Equipment, by D. A. Storozhik.

RUSSIAN, per, Iz Vyashikh Uchob Zaved, Chern Metal. No 9, 1959, pp 157-169.

BISI 2084

Sci - Engr

Jul 61

161,037

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

S-155/60 (MY-3659).

Seven Years of the Peking Institute of Ferrous Metallurgy, by Kao Yun-sheng, 8 pp.

RUSSIAN, per, Iz Vysshikh Uchebn Zaved Chern Metall, No 9, Stalinsk, 1959, pp 189-194.

JPRS 2422

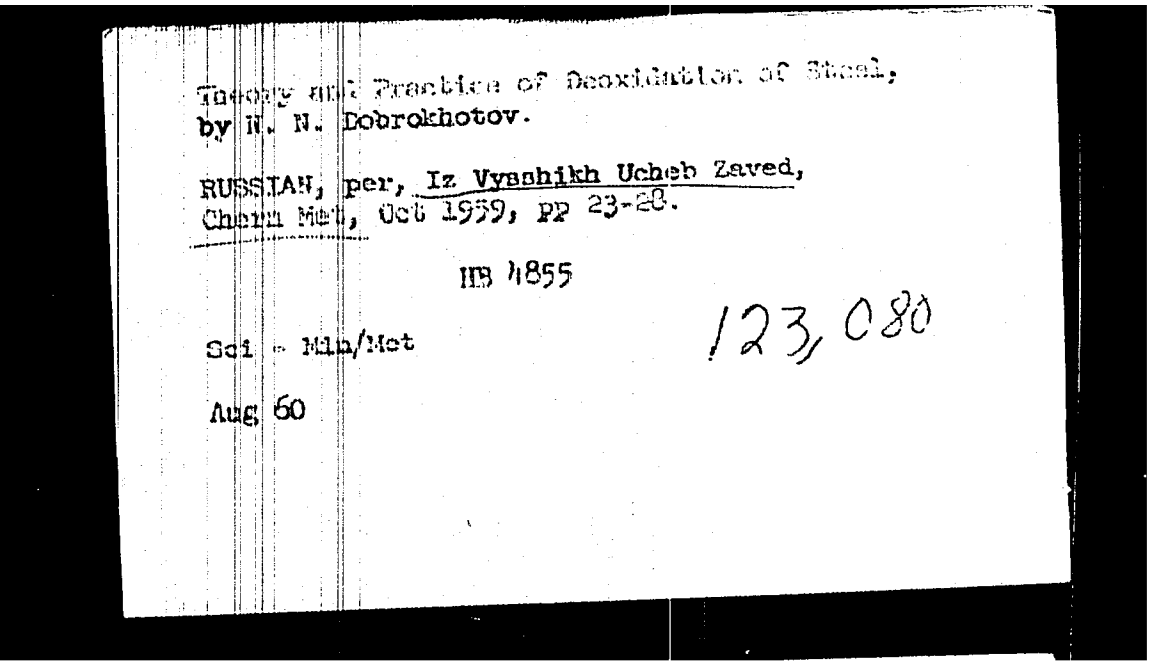
Sci - Min/Met
Apr 60

OTS 60-11454

111,931

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Theory and Practice of Deoxidation of Steel,
by N. N. Dobrokhotov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved,
Chern Met, Oct 1959, pp 23-28.

HB 4855

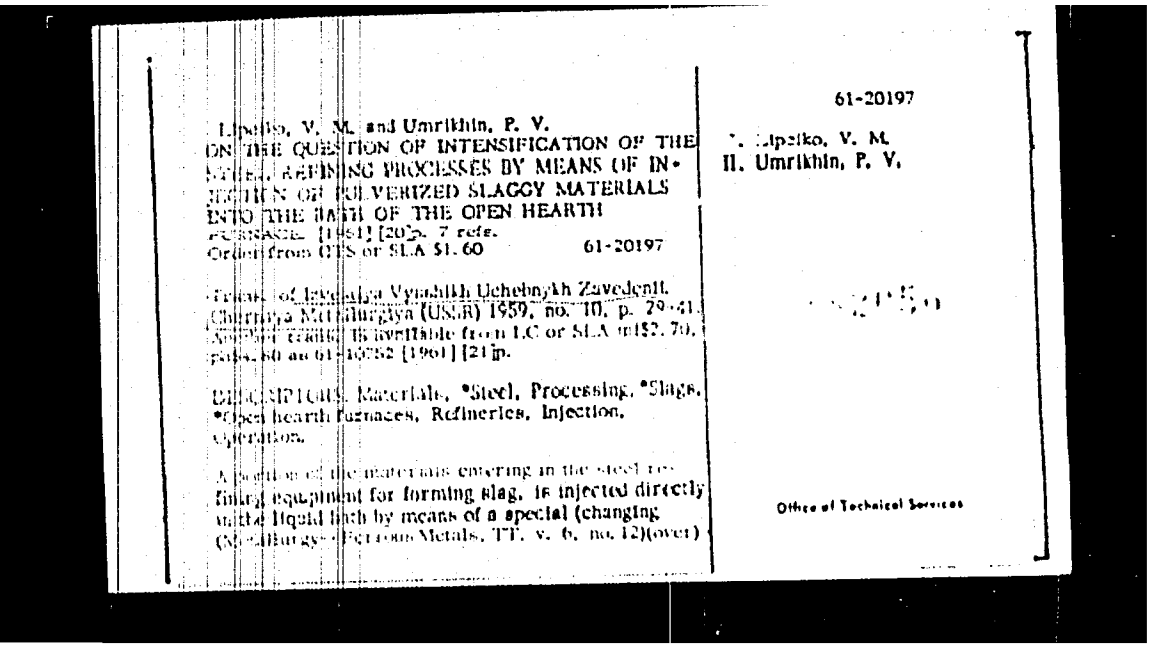
123,080

Sci - Min/Met

Aug 60

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Lipsko, V. M. and Umrikhin, P. V.
ON THE QUESTION OF INTENSIFICATION OF THE STEEL-REFINING PROCESSES BY MEANS OF INJECTION OF PULVERIZED SLAGGY MATERIALS INTO THE BATH OF THE OPEN HEARTH FURNACE. [1961] [20]p. 7 refs.
Order from OTS or SLA $1.60 61-20197

Trudy Vsesoyuznogo Nauchnogo Issledovatelskogo Instituta Vyssshikh Uchebnykh Zavedeniy. Chernaya Metallurgiya (USSR) 1959, no. 10, p. 29-41.
Also published under title is available from LC or SLA as 52, 70, pages, 60 as 61-16252 [1961] [21]p.

DESCRIPTORS: Materials, *Steel, Processing, *Slags, *Open hearth furnaces, Refineries, Injection, Operation.

A method of introducing materials entering in the steel refining equipment for forming slag, is injected directly under the liquid bath by means of a special (changing
(Metallurgy - Ferrous Metals, TT, v. 6, no. 12)(over)

61-20197

1. Lipsko, V. M.
II. Umrikhin, P. V.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Effect of Remelting in an Arc Vacuum Furnace on the Properties of Nickel-Base Heat Resistant Alloys, by V.A. Sheremetyev.

RUSSIAN, per, Is Vysshikh Uchab Zaved, Chern Metal, No 10, 1959, pp 43-48. CIA 9660416

ATIC HCL 678

Sci - Min/Met

May 61
HC-1167

152, 582

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

The Design of the Pilger Roll Profile for Achieving Maximum Mill Output, by O. A. Plyatskovskiy, A. A. Chernyavskiy.

RUSSIAN, pur, Iz Vysshikh Uchab Zaved, Chern Metal, No 10, 1959, pp 49-56.

BISI 2004

Sci - Engr

May 61

148,117

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

The Effect of Steel Quality of the Manner of Introducing Aluminum, by I. E. Brainin, N. V. Gubenko.

RUSSIAN, per, Iz Vysshikh Uchebn Zaved, Chern Metal, No 10, 1959, pp 89-98.

BISI 2207

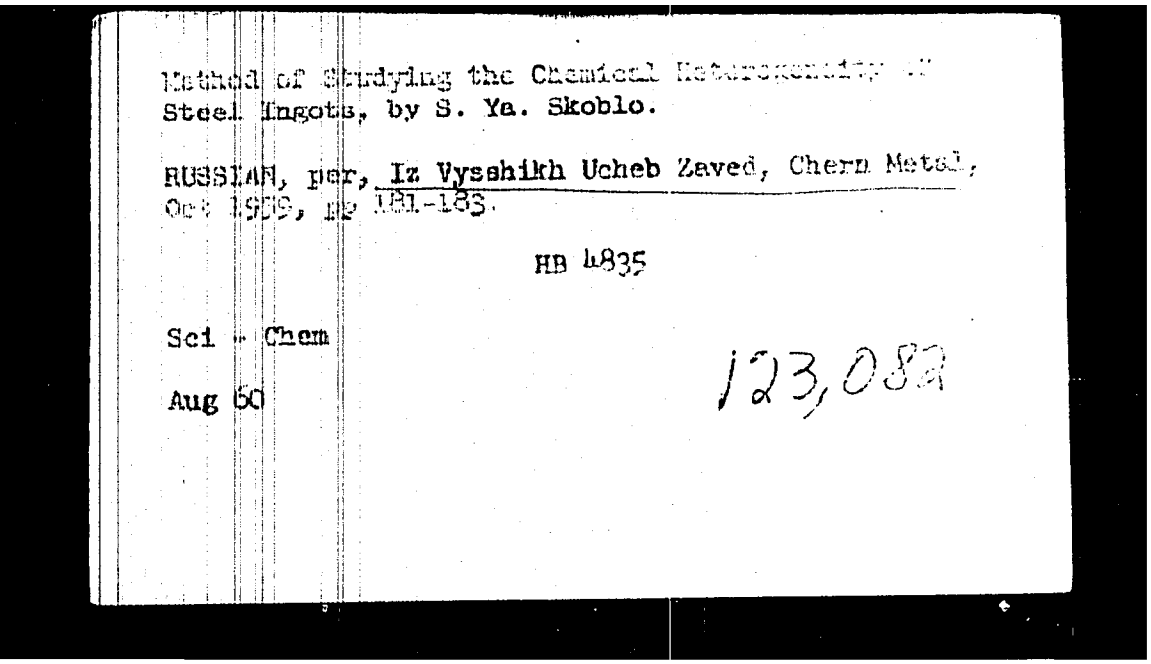
Sci - Min/Metals

171, 418

Oct 61

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Method of Studying the Chemical Heterogeneity of Steel Ingots, by S. Ya. Skoblo.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, Oct 1959, pp 181-185.

HB 4835

Sci - Chem

Aug 60

123,083

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

New Methods of Sulphur Removal From Pig Iron Outside the Blast Furnace, by S. K. Sololev, et al.

RUSSIAN, per, Iz Vynshikh Uchab Zaved. Chern Metall, Nov 1959, pp 13-18.

HB 4856

123,076

Sci - Engr

Aug 60

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Geometry of the Roll Pass in the Hot Pilgering of Tubes, by A. P. Chekmarev, A. A. Chernyavskiy.

RUSSIAN, per, Is Vyashikh Uchob Zavod, Chern Metal, Nov 1959, pp 47-62.

BISI 1989

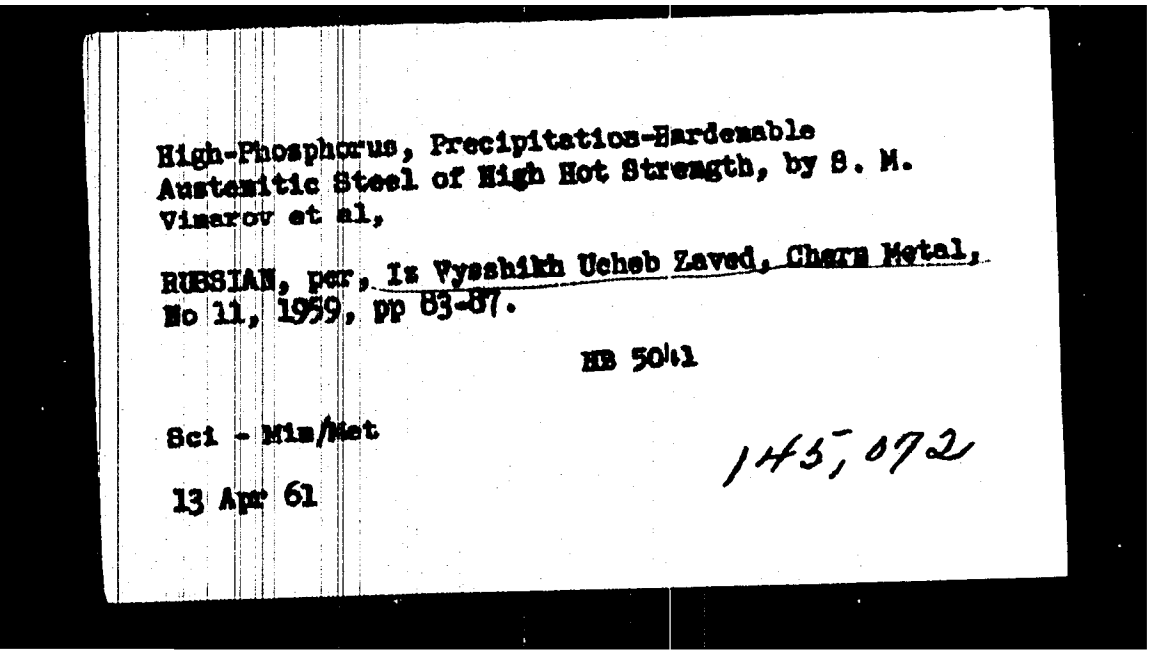
Sci - Engr

May 61

148,116

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



High-Phosphorus, Precipitation-Hardenable Austenitic Steel of High Hot Strength, by S. M. Vinarov et al,

RUSSIAN, per. Iz Vyesshikh Uchebn Zaved, Chern Metal, No 11, 1959, pp 83-87.

HB 5041

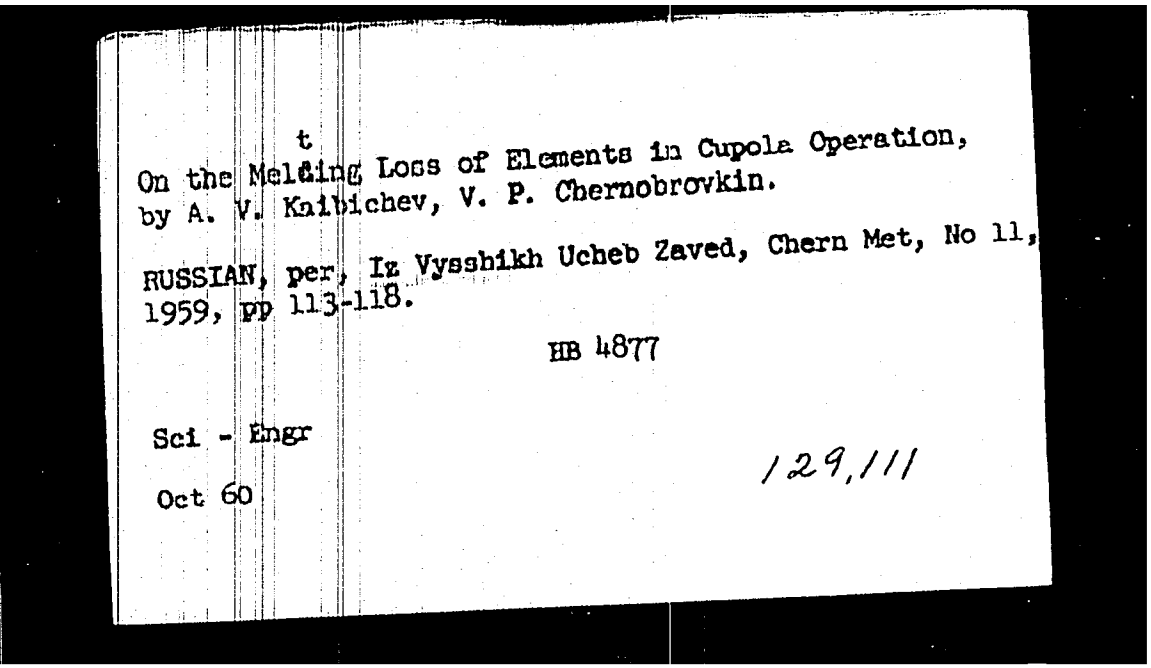
Sci - Min/Met

13 Apr 61

145,072

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



t
On the Melting Loss of Elements in Cupola Operation,
by A. V. Knibichev, V. P. Chernobrovkin.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Met, No 11,
1959, pp 113-118.

HB 4877

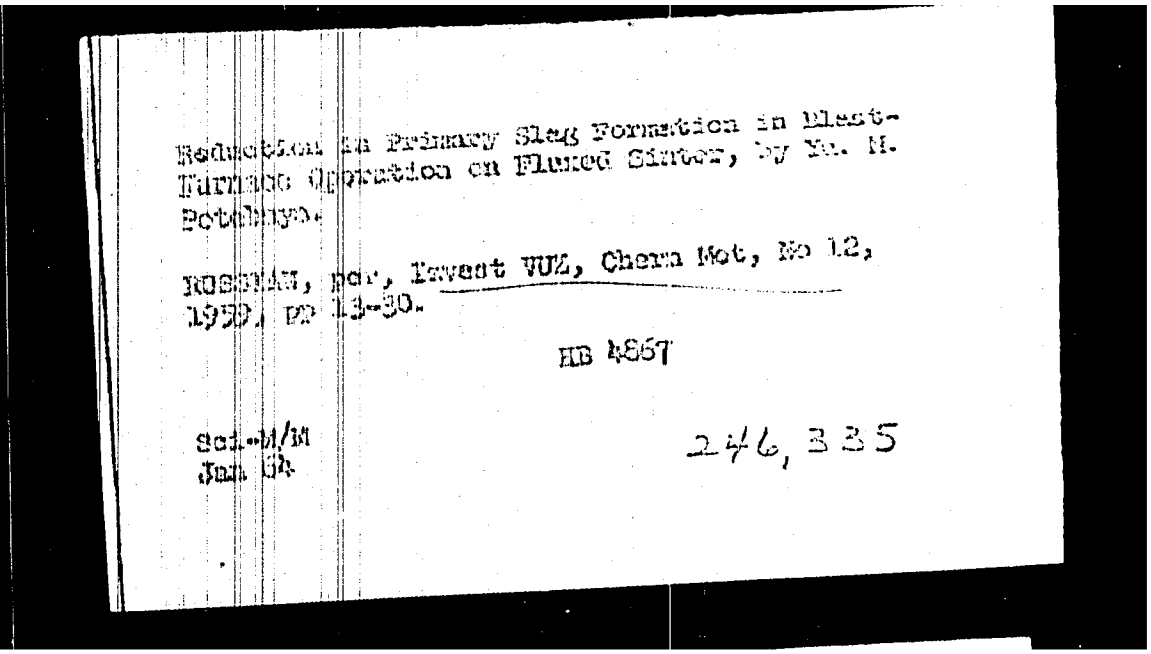
Sci - Engr

Oct 60

129,111

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Reduction in Primary Slag Formation in Blast-Furnace Operation on Fluxed Sinter, by Yu. N. Petukhov.

RUSSIAN, per, Izvest VUZ, Chern Met, No 12, 1959, pp 13-30.

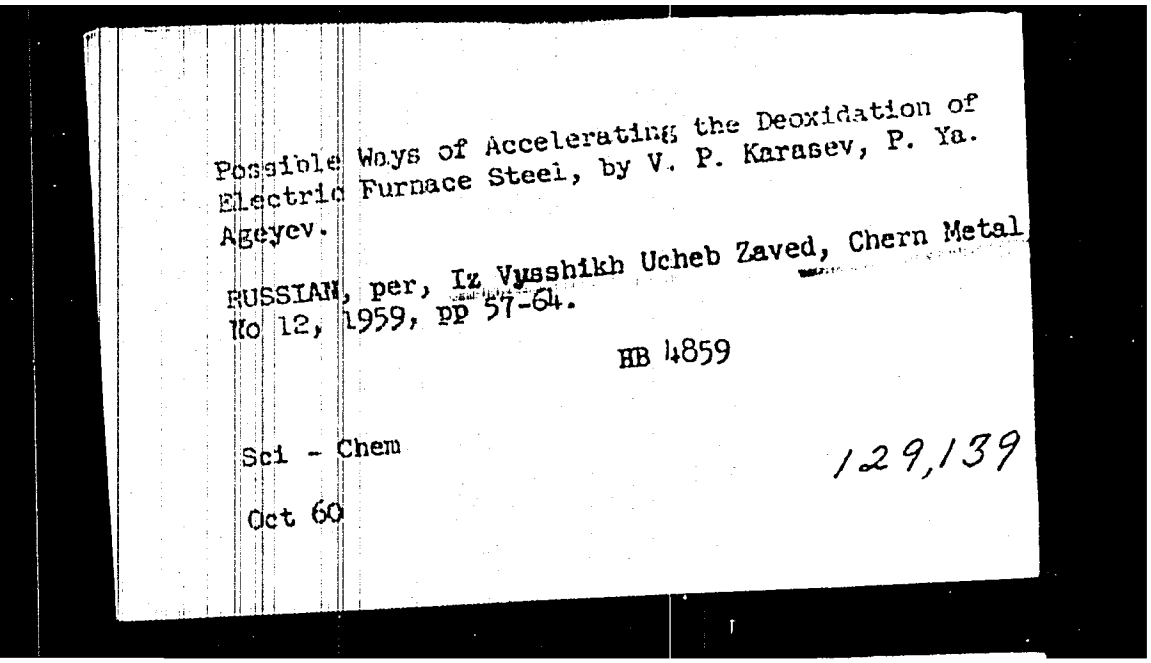
HB 4867

Sci-M/M
Jan 60

246,335

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Possible Ways of Accelerating the Deoxidation of Electric Furnace Steel, by V. P. Karasev, P. Ya. Ageyev.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 12, 1959, pp 57-64.

HB 4859

Sci - Chem

Oct 60

129,139

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

New Compound in the Rhenium-Zirconium System and Its Crystal Structure, by P. I. Kripyakevich, M. A. Tylkina, Ye. M. Savitskiy, 9 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metallurg, No 1, 1960, pp 12-15.

AEC Tr-4391

Sci - Min/Met
Apr 61

149,059

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Etude des facteurs de l'oxydation du carbone dans le fer liquide, by E. Dun, ~~Ba~~ S. I. Filippov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, Vol III, No 1, 1960, pp 16-23.

CBS I.T.3523

Sci

Nov 61

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Study of the Temperature Dependence of the Volume Self-Diffusion of Fe in Steel, by P. L. Gruzin. RUSSIAN, par, Izv VUZ Khern Met, No 1, 1960, pp 167-170.
*CFSTI TT 70-59091

Sci-
June 70

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Corrosion Resistance of Austenitic Steels, Worked at Subzero Temperatures, by N. N. Lyulicheva, N. V. Pisareva.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 2, 1960, pp 78-80.

HB 4843

Sci - Min-met

Oct 60

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Conditions de trempe par induction et de revenu de l'acier rapide P 18 au tungstene-chrome-vanadium-molybdene, by I. N. Kidin.

RUSSIAN to FRENCH, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 2, 1960, pp 112-117.

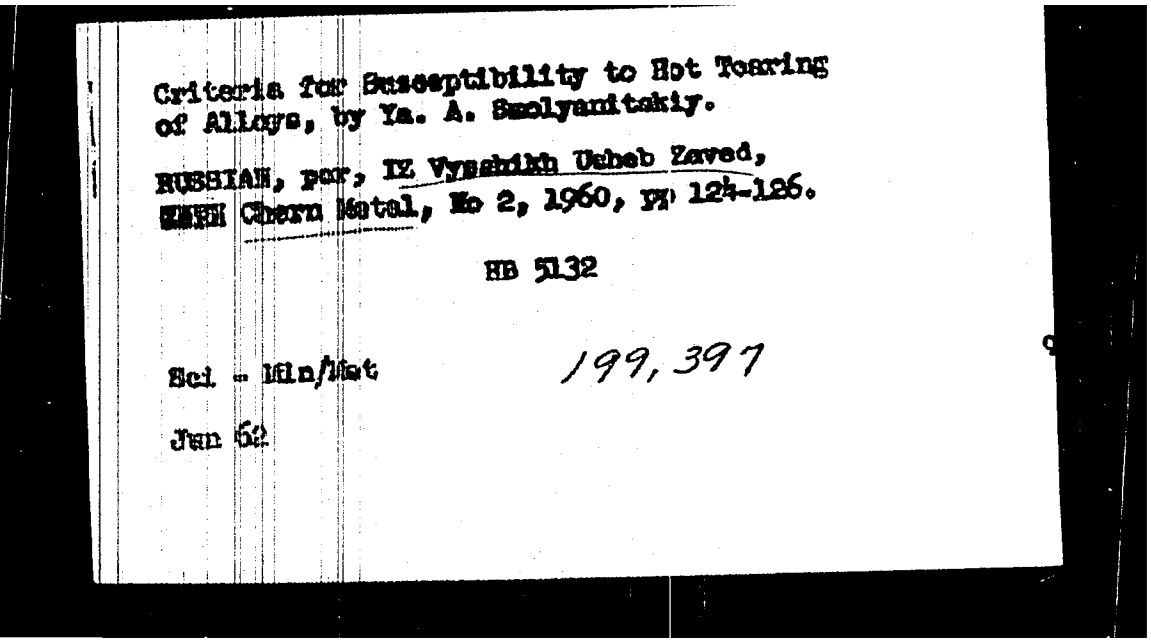
CDS I.T.3462

Sci

Nov 61

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Criteria for Susceptibility to Hot Tearing of Alloys, by Ya. A. Smolyanitskiy.

RUSSIAN, per; Iz Vyssh Uchab Zaved, Chern Metal, No 2, 1960, pp 124-126.

HB 5132

Sci - Min/Met

Jan 62

199,397

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Surface Impregnation of Steel With Titanium in Molten Salts, by A. N. Minkevich, A. Gvozdev.

RUSSIAN, per, Iz Vyashikh Ucheb Zaved, Chern Metal, No 2, 1960, pp 151-156.

HB 4842

Sci - Min/Met

Oct 60

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Investigation of Gas Movement in a Restricted Area, by M. A Glinkov, Choi En Sir.

RUSSIAN, per, Iz Vyashikh Ucheb Zaved, Chern Metal, No 2, 1960, pp 163-168.

BISI 2078

Sci - Phys

Jun 61

156,861

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Employing the Parameters of Empirical Formulas That Relate Hardness to Temperature, Duration of Load, and Pressure to Determine the Limits of Solubility in the Solid State, by V. P. Shishokin, A. E. Nikerov, 6 pp.

RUSSIAN, per, Iz Vysshikh Uchab Zaved, Chern Met, No 3, 1960, pp 91-95.

AEC Tr-4441

154,786

Sci - Phys
Jun 61

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Note on Question of K-State in Nickel Chromium Alloys, by A. V. Prokrushchenko, G. Ye. Chetverkin 9 pp.

RUSSIAN, per, Iz Vysshikh Uchebnykh Zavedeniy, Chern Metal, No 3, 1960, pp 106-109.

ATIC MIL-692/1

AEC NP-TL-509

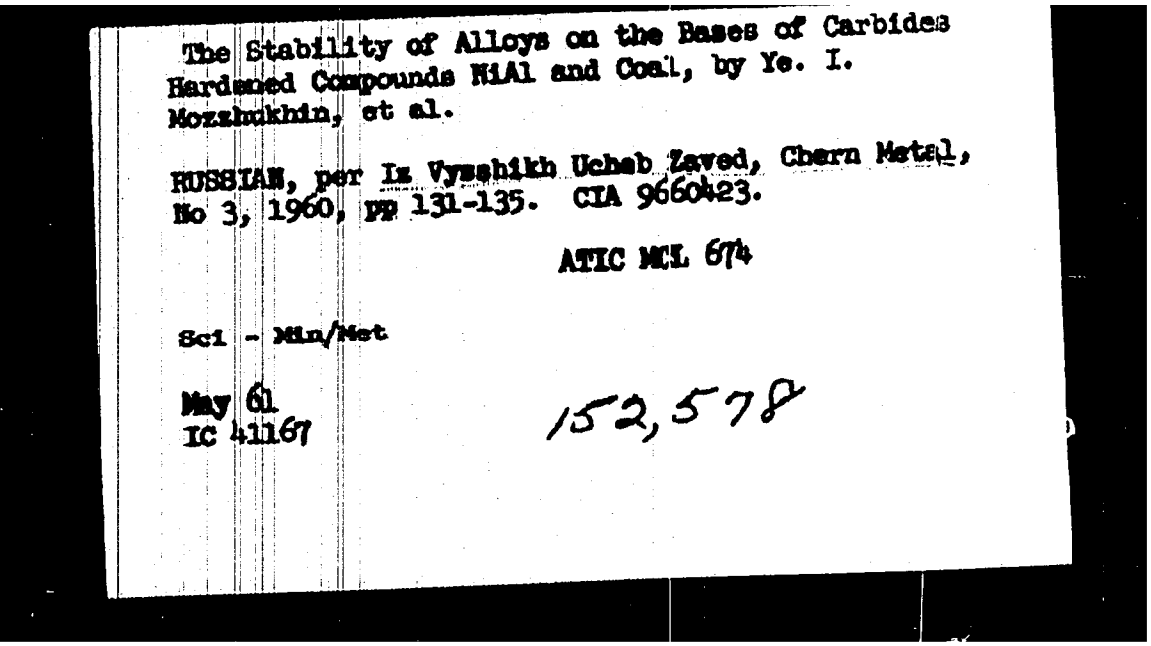
128,477

Sci - Min/Metals
Chem

Oct 60

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



The Stability of Alloys on the Bases of Carbides Hardened Compounds NiAl and Coal, by Ye. I. Mozzhukhin, et al.

RUSSIAN, per Iz Vysshikh Uchab Zaved, Chern Metal, No 3, 1960, pp 131-135. CIA 9660423.

ATIC MCL 674

Sci - Min/Met

May 61
IC 41167

152,578

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Hardenability of Columbium-Alloyed Steel, by M. P. Braun, B. B. Vinokur, V. A. Kamalov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 3, 1960, pp 140-145.

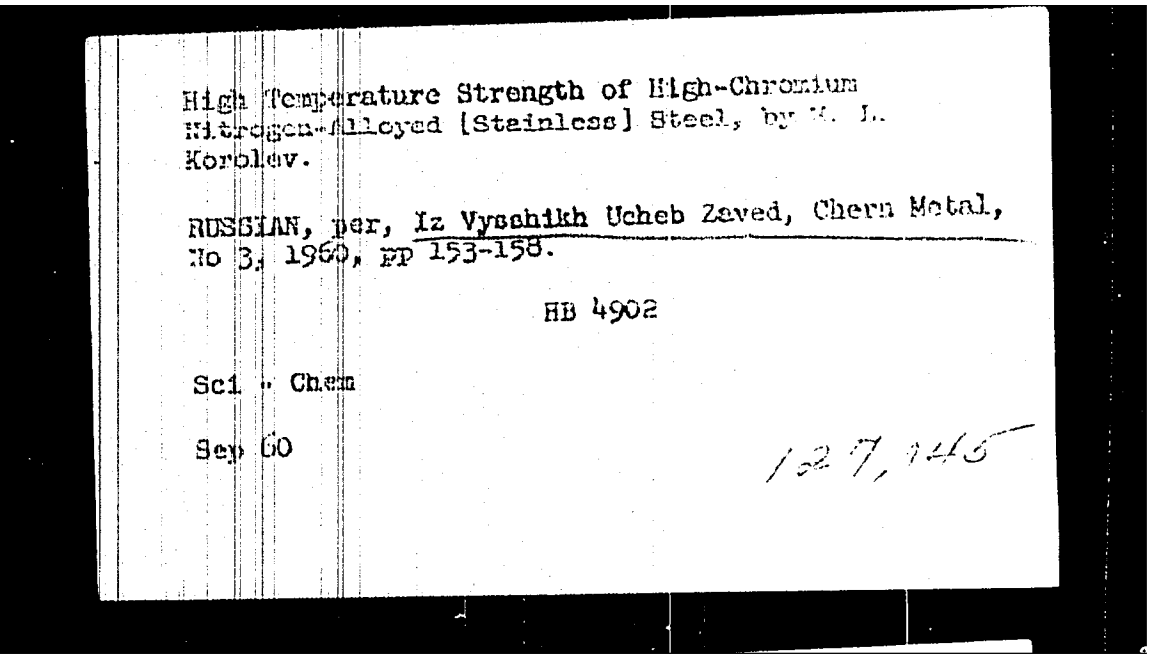
HB 4341

Sci - Min/Met

Oct 60

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



High Temperature Strength of High-Chromium Nitrogen-Alloyed [Stainless] Steel, by M. L. Korblev.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 3, 1960, pp 153-158.

HB 4902

Sci - Chem

Sep 60

127, 145

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Some Problems of the Kinetics and Mechanism of the Reduction of Iron Oxide With Carbon, by V. K. Simonov, S. T. Rostovtsev.

RUSSIAN, per, Iz Vysshikh Uchebn Zaved, Chern Metal, No 4, 1960, pp 5-18.

BISI 2003

Sci - Chem

Jul 61

161,076

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Apparatus for the Study of the Reduction Kinetics of Oxides With Solid Carbon at High Temperatures, by D. I. Ryzhonkov, et al.

RUSSIAN, per, Iz Vyashikh Ucheb Zaved, Chern Metal, No 4, 1960, pp 19-22.

HB 5036

Sci - Chem

Apr 61

147,437

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Investigation of the Reduction Kinetics of Ferrous Oxide by Solid Carbon at Temperatures Above 1400° C, by V. V. Kondakov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 4, 1960, pp 23-28.

HB 5037

Sci - Chem

Jul 61

16,024

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Influence of Blast Temperature, Intensifiers, and Injection of Fuels Upon the Oxidizing Zone of a Blast Furnace, by V. I. Loginov.

RUSSIAN, per; Iz Vysshikh Ucheb Zaved, Chern Metal, No 4, 1960, pp 29-36.

HB 5035

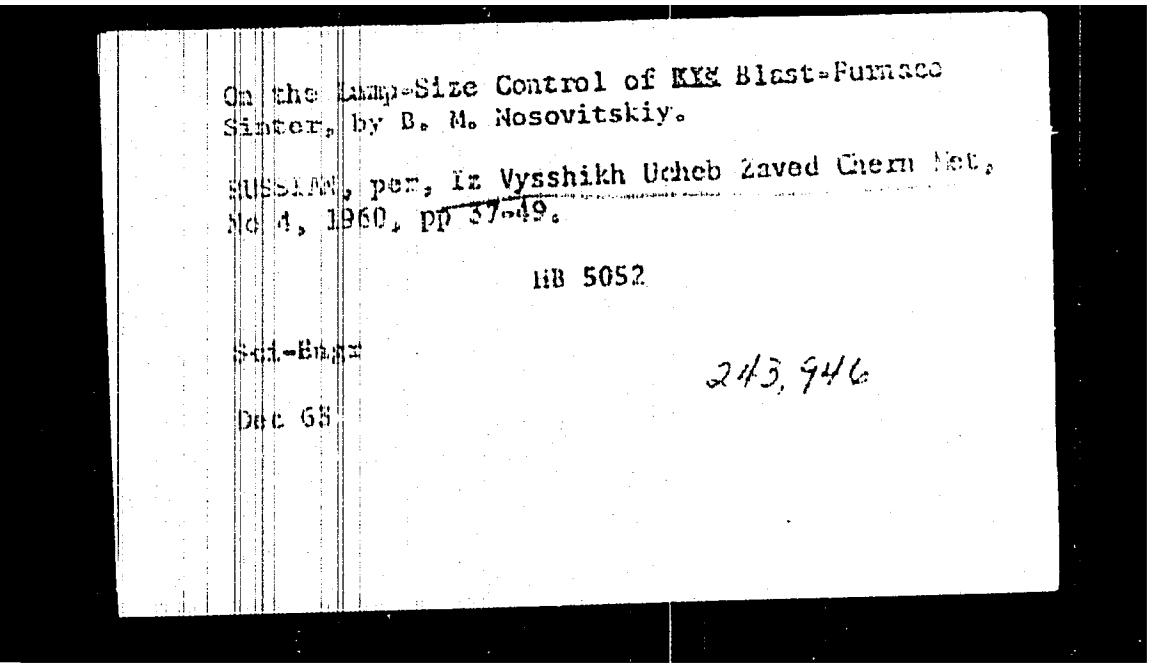
Sci - Engr

Apr 61

147,458

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



On the Lump-Size Control of KKS Blast-Furnace Sinter, by B. M. Nosovitskiy.

SUSSR, per, Iz Vysshikh Ucheb Zaved Chern Met, No 4, 1960, pp 37-49.

HB 5052

Sci-Bkgs

Dec 68

243,946

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

On the Effect of Chromium and Manganese in Rimming Steel Upon Ingot Structure, by V. S. Konovalov.

RUSSIAN, per, Iz Vuzov ~~XXXX~~ Ucheb ~~XXX~~ Zavad, Chern Met, ~~XXX~~ No 4, 1960, pp 77-85.

HB 5040

Sci - Min/Met
Oct 61

171, 861

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Oxidation of the Impurities Present in Steelmaking Baths, Communication I, by V. I. Yavoyskiy, A. F. Vishkarev.

RUSSIAN, per, Iz Vysshikh Uchebn Zaved, Chern Metal; May 1960, pp 39-48.

HB 5081

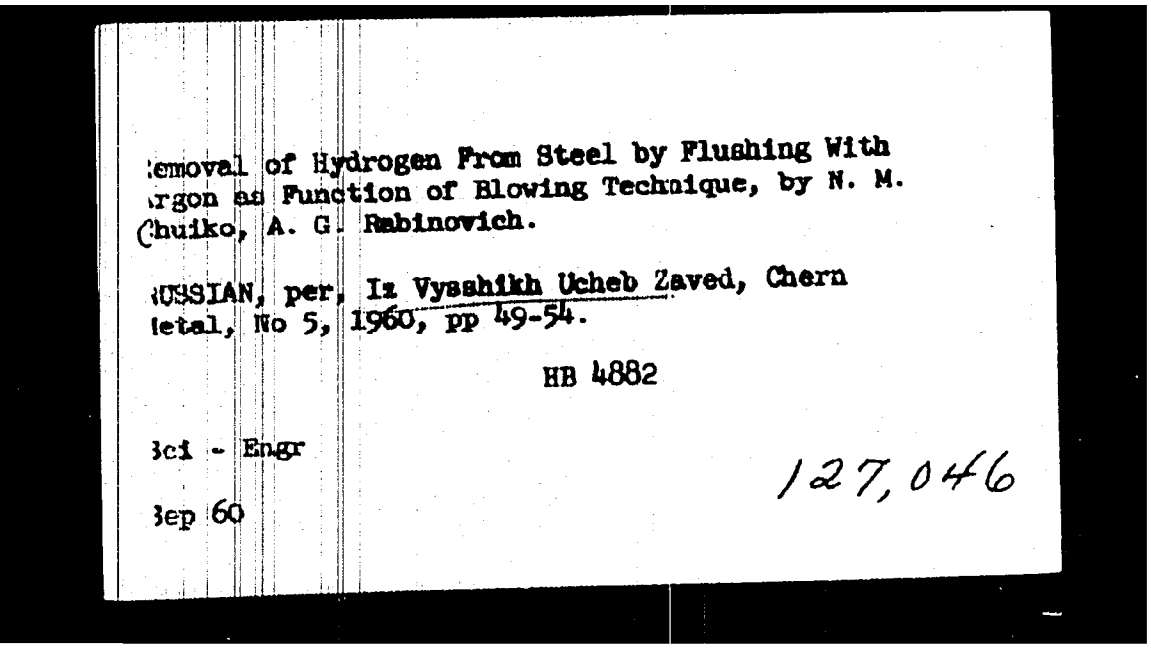
Sci - Min/Met

Jul 61

16,020

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5



Removal of Hydrogen From Steel by Flushing With Argon as Function of Blowing Technique, by N. M. Chuiko, A. G. Rabinovich.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 5, 1960, pp 49-54.

HB 4882

Sci - Engr

Sep 60

127,046

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

S-565/60 (DC-4192)

Investigation of Metal Flow During Upsetting With Backing Rings by Means of the Principles of Variations, by I. Ya. Tarnovskiy, O. A. Ganago, R. A. Vaysburd, 11 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 5, 1960, pp 55-60.

JPRS 3924

Sci - Min/Metals

Sep 60

127,236

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

S-565/60 (DC-4192)

Forward Flow at the Boundary of the Zone of Deformation, by M. N. Potoshnyev, 11 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 5, 1960, pp 61-67.

JPRS 3925

OTS 60-31775 27,239

Sci - Min/Metals

Sep 60

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

S-565/60 (DC-4192)

Concerning the Horizontal Velocities of Metal During Drawing, by I. K. Suvorov, 5 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 5, 1960, pp 68-71.

JPRS 3926

Sci - Min/Metals

Sep 60

127,238

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Structural Transformations in Plain Carbon Steels While Being Mechanically Tested, by B. A. Apaycv.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Met, No 5, 1960, pp 91, 92.

HB 4901

Sci - Engr

Oct 60

129,105

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

S-565/60 (DC-4192)

Evaluation of the Factors Determining the Change in Diffusion Mobility During Deformation, by B. S. Bokshteyn, T. I. Gubkova, 12 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 5, 1960, pp 108-114.

JPRS 3927

127,243

Sci - Min/Metals

Sep 60

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Mechanism of Grain Refinement by Low-Frequency Vibrations During Crystallization [of Metals], by I. I. Novikov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Met, No 5, 1960, pp 130-134.

HB 4900

Sci - Chem

Oct 60

129,113

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

S-565/60 (DC-4192)

Investigation of Changes in the Fine Intragranular Structure of a Complex Cobalt-Base Alloy (K4ONKhM) During Plastic Deformation and Annealing, by Yu. A. Skakov, Ya. S. Umanskiy, 13 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 5, 1960, pp 150-158.

JPRS 3928

Sci - Min/Metals

127,246

Sep 59

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

The Investigation of Binary and Some Ternary Ferrous-and Molybdenum-base Alloys by the Micro-T.E.M.F. Method, by Ye. V. Panchenko, E. M. Strug.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metal, Vol V, 1960, pp 177-180.

TIL/T. 5321

NB 5608 .203, 941

Sci - M/H
Jul 62
List No 57

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

The Effect of Tri-Axial Pressure on the Atomic Magnetic Moments of Iron, Nickel, and of the Alloy Fe+36% Ni, by I. Ya. Dekhtyar, B. S. Nikhalenkov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 6, 1960, pp 44-51.

*BISI 2249

Sci - Min/Metals

Sep 61

list 110

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5

Hot Strength of High-Phosphorus Austenitic Steel, by S. M. Vinarov, et al,

RUSSIAN, per, Iz Vyssshikh Ucheb Zaved, Chern Metal, No 6, 1960, pp 106-113.

HB 5042

Sci - Min/Met

Apr 61

144,988

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130024-5